

PX-SAR-TFC76,92,144G-TRANS

BOPET FILM

Version No.: 41853/ 0.3

Date: 25 Jan 2022

Sarafil Transparent **TFC** grade Polyester film is designed for use in printing, metallizing, and coating applications. It can also be used for various industrial and cable core wrapping applications. It has excellent slip and dimensional stability over a wide range of temperatures.

MICRON(GAUGE) 19, 23, 36 (76, 92, 144)

TYPE **TFCI** Polyester film, Corona treated Inside
TFCO Polyester film, Corona treated Outside

PROPERTIES	TEST METHOD	UNIT	19(76) MICRON (GAUGE)	23(92) MICRON (GAUGE)	36(144) MICRON (GAUGE)
TYPICAL VALUES					
NOMINAL THICKNESS	PHC Method	Micron	19	23	36
		Gauge	75	92	142
YIELD	PHC Method	m2/kg	37.6	31.1	19.9
		in2/lb	26500	21900	14000
MECHANICAL PROPERTIES					
TENSILE STRENGTH					
MD	ASTM D-882	kg/cm2	2100	2100	2000
		kpsi	30	30	28.6
TD	ASTM D-882	kg/cm2	2200	2200	2100
		kpsi	31.5	31.5	30
ELONGATION AT BREAK					
MD	ASTM D-882	%	140	140	150
TD	ASTM D-882	%	135	135	145
THERMAL PROPERTIES					
HEAT SHRINKAGE (AT 150 DEG. C FOR 30 MIN)					
MD	ASTM D-1204	%	1.6	1.6	1.6

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PROPERTIES	TEST METHOD	UNIT	19(76) MICRON (GAUGE)	23(92) MICRON (GAUGE)	36(144) MICRON (GAUGE)
TD	ASTM D-1204	%	0.2	0.2	0.2
SURFACE PROPERTIES					
CO-EFFICIENT OF FRICTION, (A/B)					
STATIC	ASTM D-1894		0.44	0.42	0.42
DYNAMIC	ASTM D-1894		0.34	0.34	0.34
SURFACE TENSION					
PLAIN SIDE	ASTM D-2578	Dyne/cm	42	42	42
CORONA SIDE	ASTM D-2578	Dyne/cm	56	56	56
OPTICAL PROPERTIES					
HAZE	ASTM D-1003	%	2.8	3.0	3.6
LIGHT TRANSMISSION	ASTM D-1003	%	88	88	88
ELECTRICAL PROPERTIES					
BREAKDOWN VOLTAGE	ASTM D-149 (0.25 electrodes in dry air)	Kv	5.0	6.0	9

Note: Above properties can be changed to meet the specific requirement of customers.